

The Knowledge Bank at The Ohio State University
Ohio State Engineer

Title: Back Matter

Issue Date: Mar-1925

Publisher: Ohio State University, College of Engineering

Citation: Ohio State Engineer, vol. 8, no. 3 (March, 1925), 33-36.

URI: <http://hdl.handle.net/1811/33665>

Appears in Collections: [Ohio State Engineer: Volume 8, no. 3 \(March, 1925\)](#)

In the Year 1914 —

INDUSTRY began to give more consideration to the application of mechanical methods of transporting materials within the plant and to the conservation and proper application of labor.

The experience gained since the year 1916, when America was called upon to speed up production with a shortage of labor, has shown the importance and economy of conserving human effort and applying it to more productive work.

Stored-up labor in the form of mechanical handling equipment will do the work better, in less time and at less expense.

For nearly half a century it has been the privilege of JEFFREY Engineers, pioneers in planning and analyzing material handling methods, to co-operate with engineers and others responsible for results in the Mine, Mill and Factory.

Their continued efforts have resulted in the development of efficient types of equipment to meet practically any handling purposes.

It is significant that Industrial Leaders, alert to utilize every factor that will contribute to the elimination of waste and help to increase profits, are turning to Jeffrey engineers for a solution of their mechanical handling problems.

Jeffrey Standard Equipment includes a complete line of Elevators, Conveyors; Portable Loaders and Unloaders; Coal and Ashes Handling Machinery for Power Plants; Crushers; Pulverizers, Shredders; Coal Cutters; Pit Car Loaders; Locomotives; Tipple Equipment; Ventilating Fans, etc.

Valuable Data and Information for Ohio State Engineers and Graduates will be found in Jeffrey Catalogs, text books on their respective subjects. Free upon request.

THE JEFFREY MANUFACTURING CO., Columbus, Ohio

SALES OFFICES:

Boston
New York
Philadelphia

Scranton
Pittsburgh
Rochester

Buffalo
Cleveland
Cincinnati
Detroit

Milwaukee
St. Louis
Chicago
Montreal

Denver
Salt Lake City
Los Angeles

Charlotte, N. C.
Charleston, W. Va.
Birmingham

Agencies in leading Export Centers of the World.

JEFFREY

THE MOUNT VERNON BRIDGE CO.


Engineers and Manufacturers

of

Iron and Steel Mill Buildings and
Structural Work, Railway and
Highway Bridges, Roofs,
Viaducts, Etc.

Builders of the Structural Steel Work
in the Ohio Stadium

MT. VERNON, OHIO

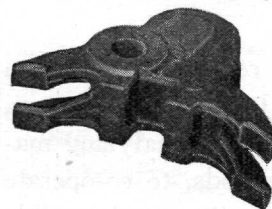


Wilson
Rolling Steel Doors
For durable service
Wilson Rolling Steel Doors installed twenty years ago are still giving excellent service. By rolling overhead and out of the way, they save valuable floor space in Warehouses, Piers, Railroad and Industrial Buildings. They also offer maximum fire resistance and discourage theft. Easily operated by hand, gearing or motor.
Send for 72 page descriptive catalog No. 45
The J. G. Wilson Corporation
Established 1876
11 East 36th Street, New York City
Offices in all principal cities

Black and Galvanized SHEETS Tin and Terne Plates

We manufacture SHEET AND TIN MILL PRODUCTS for all purposes — American Bessemer, and American Open Hearth Steel Sheets, Keystone Copper Steel rust-resisting Sheets, Apollo Galvanized Sheets, Formed Roofing and Siding Products, Culvert and Flume Stock. Sheets for Special Purposes, Roofing Tin Plates, Bright Tin Plate, Black Plate, Etc.

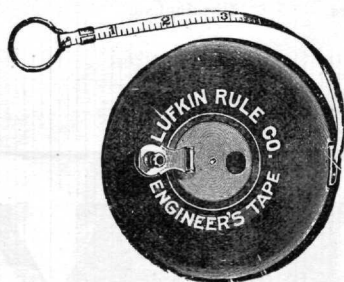
AMERICAN SHEET AND TIN PLATE COMPANY, Frick Bldg., Pittsburgh, Pa.
Every engineer should have our booklets describing Keystone Copper Steel



ILMENITE ELECTRIC STEEL CASTINGS

Call for ILMENITE ELECTRIC STEEL in your plans and specifications. It has double strength. Elastic limit 65,000 lbs. Tensile strength 95,000 lbs.

THE BONNEY-FLOYD COMPANY
COLUMBUS, OHIO



THE ENGINEER'S PATTERN
Popular with the engineers. A 1/4" wide extra heavy steel tape in substantial metal-lined leather case. Also furnished in open disc reel and open metal frame.

TWO STURDY AND RELIABLE

LUFKIN TAPES

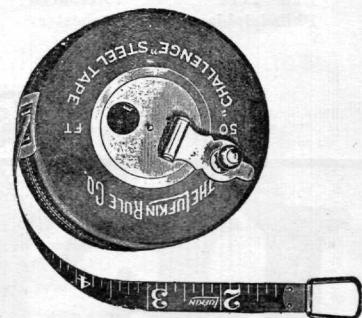
FOR ENGINEERS
SURVEYORS
ROAD BUILDERS

Our line includes, also, a tape for every purpose, each one the best designed for its work.

SEND FOR CATALOG

THE LUFKIN RULE CO.

SAGINAW, MICH.
New York Windsor, Can.



THE "CHALLENGE"

Suitable for any measuring. A steel line in high-grade metal-lined leather case. Made with 3/8" and 1/2" wide line. Many highway departments prefer the 1/2" and we recommend it for heavy service.

INDUSTRIAL LIGHTING CODES.

In order to protect workers from accidents and eye sight damage, no less than five states, New York, New Jersey, Pennsylvania, Wisconsin and Oregon have now in force lighting codes for industrial establishments. Other states are now considering the adoption of an industrial lighting code, and it seems only a question of time when all the states will adopt such a code.

Proper lighting of work places is not only of great importance to the operators working therein, directly affecting their safety and eyesight, but it is a factor of equal importance to the employer, as quality and quantity of output are deciding factors of profit or loss in the operation of the plant.

The introduction to the Wisconsin code reads as follows: "Insufficient and improperly applied illumination is a prolific cause of industrial accidents. In the past few years numerous investigators, studying the cause of accidents, have found that the accident rate in plants with poor lighting is higher than similar plants which are well illuminated. Factories which have installed approved lighting have experienced reductions in their accidents which are very gratifying.

"Of even greater importance, poor lighting impairs vision. Because diminution of eyesight from this cause is gradual, it may take the individual years to become aware of it.

"This makes it all the more important to guard against the insidious effects of dim illumination, of glaring light sources shining in the eyes, of flickering light, of sharp shadows, of glare reflected from polished parts of work. To conserve the eyesight of the working class is a distinct economic gain to the state, but regardless of that, humanitarian considerations demand it.

"Finally, inadequate illumination decreases the production of the industries of the state, and to that extent, the wealth of its people. Factory managers who have installed improved illumination, are unanimous in the conviction that better lighting increases production and decreases spoilage."

The Wisconsin Commission has adopted a rule to the effect that, "diffusive or refractive window glass shall be used for the purpose of improving day light conditions or for the avoidance of eye strain, wherever the location of the work is such that the worker must face large window areas, through which excessively bright light may at times enter the building."

A glass is now available which meets the above requirements. It properly diffuses the light and prevents sun glare passing into the building and is known as Factrolite.

Engineers of to-day are making a thorough study of illumination, so that they may be able to plan and lay out industrial plants, to scientifically increase their efficiency to as near the maximum as possible. This accomplished the engineer is not only doing something worth while for his employer, but is doing quite as much for himself by coming into prominence with modern ideas.

If you are interested in the distribution of light through Factrolite, we will send you a copy of Laboratory Report—"Factrolited."

MISSISSIPPI WIRE GLASS CO.,

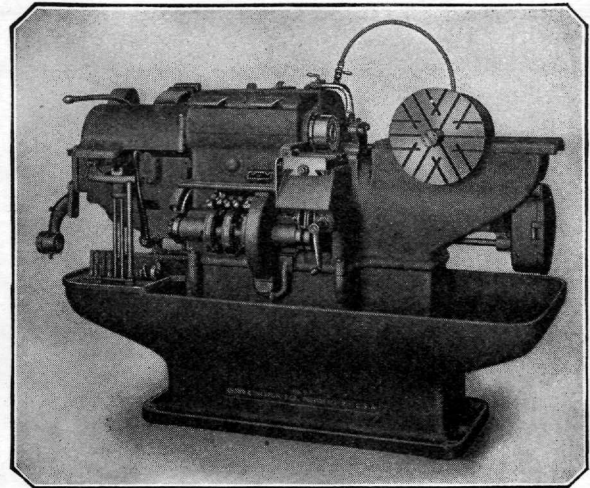
220 Fifth Avenue,

St. Louis.

New York.

Chicago.

Why interchangeable parts can be made at low cost—



BROWN & SHARPE Automatic Screw Machines are one of the big reasons

THE low cost of parts for automobiles, sewing machines, typewriters, etc., is due entirely to quantity production. Many of these parts are made from bar stock and Brown & Sharpe Automatic Screw Machines are often responsible for the fast rate of production secured.

These machines when once set-up and supplied with stock, work automatically and perform each operation with a high degree of accuracy.

BROWN & SHARPE MFG. CO.
PROVIDENCE, R. I., U.S.A.

Bell, North 4412

Citizens 12052

APRIL 12

Easter Flowers**BLOCK FLORAL**

NO. 11 SIXTEENTH AVENUE

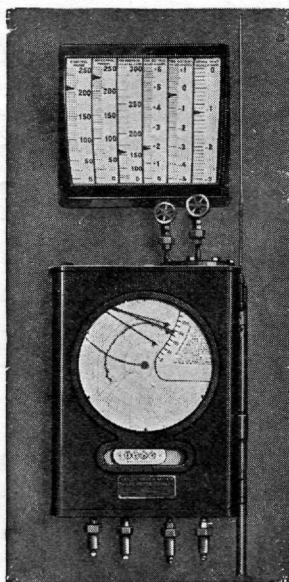
*You'll Smile With
Satisfaction*When you wear fit-to-measure
Satis-Factory Shoes**GUST'S SHOE REPAIRING**SIXTEENTH AVENUE AND HIGH STREET
BasementFOR FIFTEEN YEARS OHIO'S
LEADING POTATO CHIP
MANUFACTURERS**Mike-Sells
Tater Flakes**

1712 N. High St. N. 7640-J

COLUMBUS SPRINGFIELD DAYTON

*College and
Commercial Printing***LEGG PRINTING CO.**1137 N. HIGH STREET
NORTH 2987

CHAS. W. MOODY, Mgr.

BAILEY METERS

*BOILER PANEL consisting
of Bailey Multi-Pointer Gage,
Type P6F, and Bailey Boiler
Meter, Type D26, Class 59.*

BAILEY BOILER METERS are of real assistance in obtaining maximum efficiency and capacity from boiler operation because they record the rate of Steam Flow from the boiler, the rate of Air Flow through the furnace and the Flue Gas Temperature on a single uniformly graduated chart. The relation between the Steam Flow and Air Flow shows instantly whether an excess or a deficiency of air is being supplied. Stoker speed as well as the integrator for Steam Flow may be added.

BAILEY MULTI-POINTER GAGES are made with any number of pointers to fit each installation. Indicate Pressure, Temperature, Rate of Flow, Draft, Speed, etc.

BAILEY METERS FOR COAL AND GRANULAR MATERIALS measure coal, crushed ore and other granular materials in large quantities.

BAILEY FLUID METERS record and integrate the flow of steam or water at any pressure or temperature. The meters may be supplied with pressure recorders, temperature recorders or both.

BAILEY GAS METERS record and integrate the flow of low or high pressure gas or air at any temperature. Special meters built for measurement of chemically active gases.

BAILEY GRAVITY RECORDERS FOR LIQUIDS record the true specific gravity of a flowing sample on a 12 inch circular chart.

OTHER TYPES of Meters as well as recording and indicating Gages are made for different purposes, so that nearly any problem in connection with the metering of fluids can be handled.

*Bulletins Sent on Request***Bailey Meter Company**

2043 E. 46th St.

Cleveland, Ohio



THE FLAME THAT FIRES

COLLEGE athletic teams illustrate forcibly one truth—men achieve by inspiration. The bleachers' cry of "Hold 'em; Hold 'em!" has kept many a goal line uncrossed. "Touch-down! Touchdown!" has scored countless victories.

In an engineering organization like Westinghouse, this inspiration comes from engineering executives—men who correlate, organize, administrate, and inspire. They are engineers first, but engineers with the power to enlist the best of other men.

Many derived their own first inspiration from the Founder, George

Westinghouse himself. He took a contract for electrifying the New Haven Railroad, for example, before the apparatus had even been designed.

"Now I've dropped you into the middle of the pond", he told his engineers. "It's up to you to swim out".

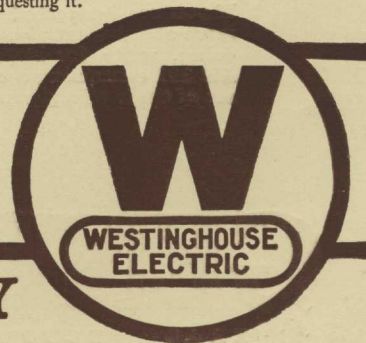
There was plenty of swimming—but Westinghouse knew his swimmers.

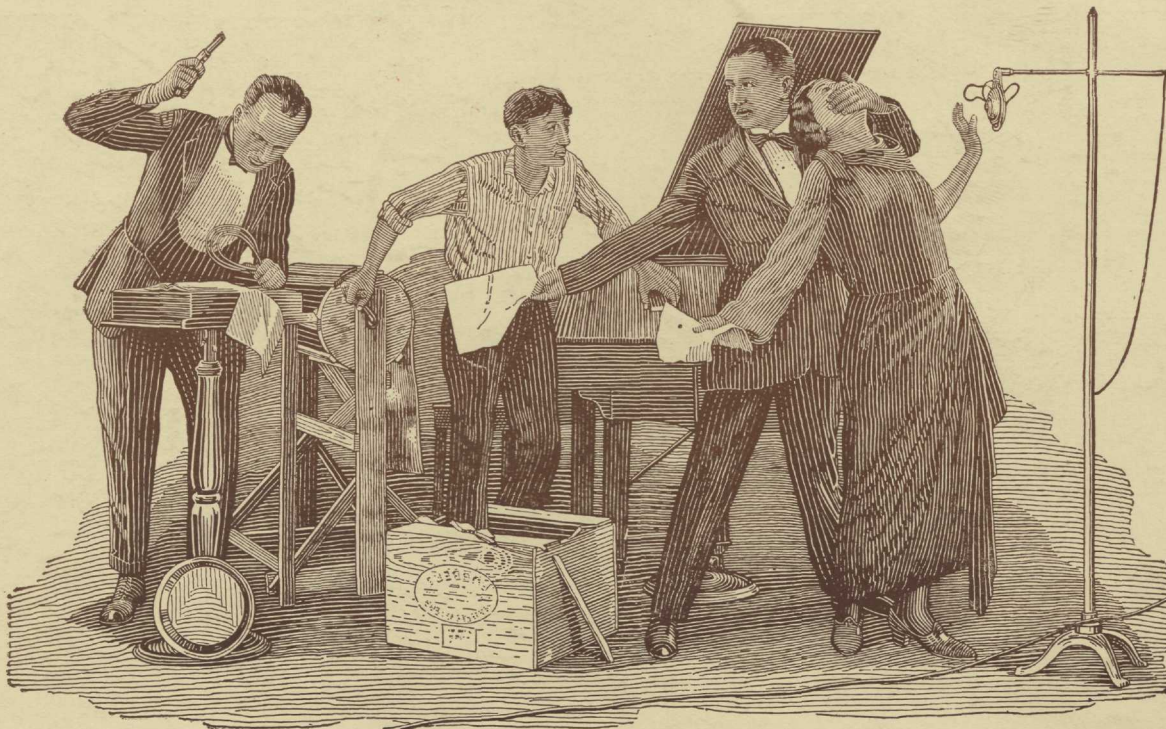
As has been true since organization began, the demand for men who can develop into leaders is far, far short of the supply. Westinghouse welcomes them. All industry welcomes them. Organizations lead because men, in turn, lead them.

This advertisement is seventh in a vocational series, outlining the fields for engineering achievement in the Westinghouse organization. A copy of the entire series will be sent to anyone requesting it.

Westinghouse

ACHIEVEMENT & OPPORTUNITY





Stage directions for this scene from William Vaughn Moody's play, "The Great Divide," call for a woman's muffled scream, a pistol shot, and the crash of breaking furniture. The microphone on the right sends them all to your home.

An Exciting Evening



WGY, at Schenectady, KOA, at Denver, and KGO, at Oakland, are the broadcasting stations of the General Electric Company. Each, at times, is a concert hall, a lecture room, a news bureau, or a place of worship.

If you are interested to learn more about what electricity is doing, write for Reprint No. AR 391 containing a complete set of these advertisements.

Here are four of the WGY Players (the world's first radio dramatic company) at a thrilling climax that almost turns sound into sight.

Tune in, some evening, on one of their productions. You will be surprised to find how readily your imagination will supply stage and setting.

GENERAL ELECTRIC

GENERAL ELECTRIC COMPANY, SCHENECTADY, NEW YORK

55-12DH